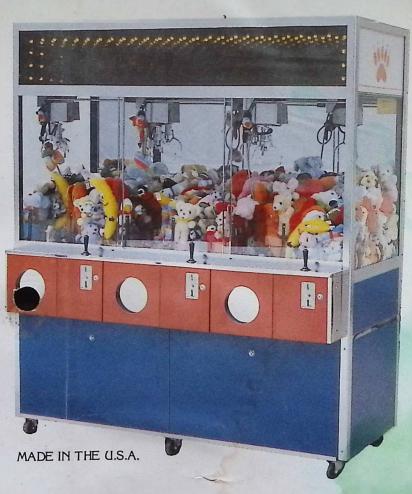


# BEAR L'LALL



# THE SUPERIOR + 1 + 2 + 3 + PLAYER CLAWS



RELIABLE QUALITY **EXCITING** 

**GREAT PERFORMANCE** 

SMART INDUSTRIES CORP., MFG. (515) 244-3500

THREE CLAW UNIT

Dimensions:

71" Wide 34" Depth

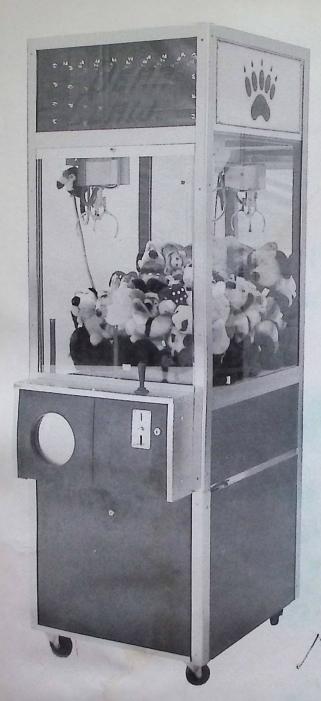
58" High (Trailer Mounted) 81" High (Floor Model)

TWO CLAW UNIT

Dimensions: 483/8" Wide 34" Depth 58" High (Trailer Mounted) 81" High (Floor Model)



# A NEW LEVEL IN QUALITY AND PERFORMANCE



# **BEAR CLAW MEANS BIG PROFIT**

A high volume machine that requires very low maintenance because of safe guards programmed into the unit.

There are two game programs built into the game board. This allows you the selection that best fits your location.

Optional dollar bill acceptor mounted on the coin door, eliminates the need of making change and increases the machines use. This means higher volume and profits!

- Two Game Option (Fast or Skill)
- Superior Joy Stick Control
- Fully Adjustable Claws
- Breakdown Cabinet For Easy Handling
- Optional Dollar Bill Acceptors

#### SINGLE CLAW UNIT

Dimensions:

261/4" Wide

34" Depth

58" High (Trailer Mounted)

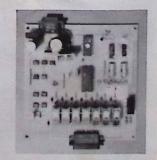
81" High (Floor Model)

MADE IN U.S.A.

NEW
EXCITING — RELIABLE
MICRO PROCESSOR
GAME BOARD

**SMART INDUSTRIES CORP., MFG.** 

1801 Bell Avenue Des Moines, Iowa 50315 Phone: (515) 244-3500



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\*DO NOT ALTER FACTORY SETTINGS\*

Connect this game only to a grounded 3-wire. If you have only a 2-wire outlet, we recommend you hire a licensed electrician to install a grounded outlet. Players may receive an electric shock if this game is not properly grounded!

#### GAME INSPECTION

This new game is ready to play upon removal from the shipping carton. However, your careful inspection is needed to supply the final touch of quality control. Please follow these steps to help us insure that your new game was delivered to you in good condition.

#### NOTE:

Do not plug the game in yet:

- 1. Examine the exterior of the game cabinet for dents, chips, or broken parts.
- 2. Unlock and open the coin door, inspect the interior of the game as follows:

Check that all plug-in connectors (on the game harness) are firmly seated. Replug any connectors found unplugged. Don't force connectors together. The connectors are keyed so they only go on in the proper orientation. A reversed edge connector will damage a PCB and will void your warranty.

Check that all plug-in integrated circuits on the game PCB are firmly seated in their sockets.

Remove the tie-wrap that holds the coiled power cord on the inside cabinet wall. Check the cord for any cuts or dents in the insulation.

#### INSTALLATION

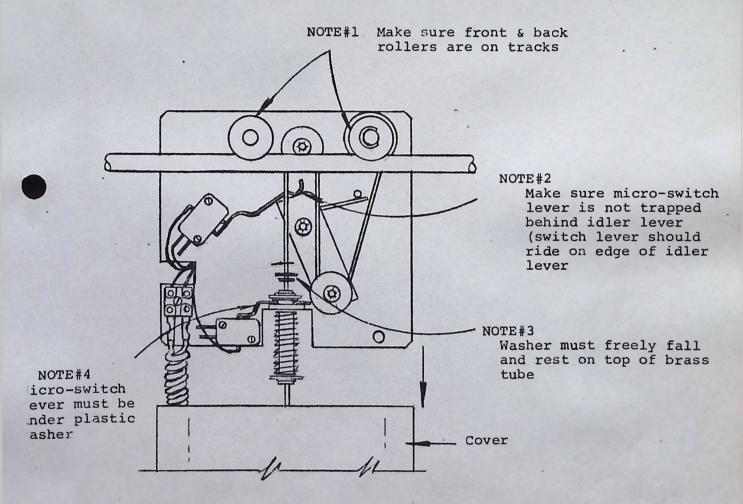
1. Location requirements:

Power
Domestic 110 V @ 60 Hz
Foreign 200 V to 240 V @ 50 Hz

Temperature: 32° to 100°F (0° to 38°C) Humidity: Not over 95% relative

Space required: Single Play 34 x 26 1/4 inches Double Play 34 x 48 1/2 inches Triple Play 34 x 71 inches

- 1. Remove bubble pack from crane.
- 2. Set crane on track & make sure all rollers (wheels) are on the track rods.
- 3. Check-out micro switches (Remove front cover by sliding down)



4. Game board check

A. Check to make sure that the 15 pin connector and the 25 pin connector are secure.

B. Look for any physical damage to board.

Make sure game is turned off before making changes with dip switches.

8, 7, 6, 5, 4, 3, 2, 1

"SWITCH 2"

"SWITCH 1"

1, 2, 3

8, 7, 6, 5, 4, 3, 2, 1

RELAY

RELAY

25 PIN

RELAY

RELAY

RELAY

RELAY

15 PIN

# GAME OPTION

Make sure game is turned off before making changes with dip switches.

"Switch 1"

"Switch 2"

8,7,6,5,4,3,2,1

8,7,6,5,4,3,2,1

15 PIN " CLOSE COMMAND "

1, 2, 3

RELAY

RELAY

RELAY

RELAY

RELAY

25 PIN

### GAME OPTION

: "SWITCH 2"
Number of Quarters per Game

#### Quarters

1	3	on,	2+1	off

2 2 on, 3+1 off

3 2 on, 3 on, 1 off

4 1 on, 2 off, 3 off.

# Number of Games per Quarter

#### Games

1	5	on.	5+4	off
*	_	O11,	J . 1	O L L

2 5 on, 6+4 off

3 5 on, 6 on, 4 off

4 on, 5 off, 6 off

5 4 on, 5 off, 6on

6 4 on, 5 on, 6 off

7 4 on, 5 on, 6 on

# Timer setting for "B" or "C" Game.

Switch	8	7		
	Off	Off	15	seconds
	On	Off	20	seconds
	Off	On	25	seconds
	On	On	30	seconds

# Make sure game is turned off before making changes with dip switches

# GAME OPTION

"Switch 1 " Number of Dollars per game

# Dollars

1 3 on, 2 + 1 off

Number of games per Dollar

Games	
1	6 on, 5 + 4 off
2	5 on, 6 + 4 off
3	5 on, 6 on, 4 off
4	4 on, 5 off, 6 off
5	4 on, 5 off, 6 on
6	4 on, 5 on, 6 off
7	4 on, 5 on, 6 on

Switch 7, if on, disable game "B" timer

Switch 8, on-"B" game

off-"C" game

#### CALIFORNIA ONLY

Make sure game is turned off before making changes with dip switches

## GAME OPTION

"Switch 1" Number of Dollars per game

# Dollars

1

3 On, 2 + 1 Off

Number of games per Dollar

### Games

-	
1	6 On, 5 + 4 Off
2	5 On, 6 + 4 Off
3	5 On, 6 On, 4 Off
4	4 On, 5 Off, 6 Off
5	4 On, 5 Off, 6 On
6	4 On, 5 On, 6 Off
7	4 On, 5 On, 6 On

Switch 7, if on, disable game "B" timer Switch 8, on-"B" game off-"8+" game

```
*************************
 10-06-1986
               EPROM #106(B,B+,C)
******************
* GAME SELECT: DIP SWITCH S2
  MAX DOLLARS = 3 (POS 2 AND 3)
     POS 8 * POS 1
  OFF * OFF * B+ GAME
          * X *
     ON
                             B GAME
   OFF * ON * C GAME
          * X=DON'T CARE *
     NUMBER OF DOLLARS PER GAME
     3 ON, 2 OFF
  2
     2 ON, 3 OFF
     2 ON, 3 ON
     NUMBER OF GAMES PER DOLLAR
     6 ON, 5+4 OFF
  2
     5 ON, 6+4 OFF
  3
     5 ON, 6 ON, 4 OFF
     4 ON, 5 OFF, 6 OFF
     4 ON, 5 OFF, 6 ON
  5
     4 ON, 5 ON, 6 OFF
     4 ON, 5 ON, 6 ON
* POS 7 IF ON DISABLES GAME B TIMER
********************
* NUMBER OF QUARTERS: DIP SWITCH S3
 POS 2 POS 3 4 MAX
* 1 OFF * OFF
* 2 OFF * ON
     ON
             * OFF
* 4
    ON
            * ON
* * POS 1 ON = BONUS OFF = NO BONUS *
       NUMBER OF GAMES PER QUARTERS
  GAMES
     6 ON, 5+4 OFF
      5 ON, 6+4 OFF
  3
     5 ON, 6 ON, 4 OFF
     4 ON, 5 OFF, 6 OFF
  5
     4 ON, 5 OFF, 6 ON
     4 ON, 5 ON, 6 OFF
     4 ON, 5 ON, 6 ON
     TIMER SETTING FOR B GAME
 SWITCH'S
            8
            OFF
                 OFF 15 SEC
                 OFF 20 SEC
            ON
                     25 SEC
            OFF
                 ON
                      10 SEC
            ON
                 ON
```

### PRIZE LIFT LIMITATIONS

# Close Command Switch

- 1. 4.5 ounce maximum weight for prize
- 2. 5.0 ounce maximum weight for prize
- 3. 5.5 ounce maximum weight for prize

#### REGULATIONS YOUR RESPONSIBILITY

Your game has been carefully designed and manufactured.

Our factory is capable of designing unique features or controls should your jurisdictions regulations require it.

The set-up and the daily operation of your game greatly influences the legal acceptance of your on-location crane business.

#### Your responsibilities include:

- Not to alter or tamper with any factory setting, circuitry, or programs without factory authorization.
   Doing so will nullify and void your warrant and may be criminal.
- Ascertaining that each and every prize you place in the game's playfield can be retreived and won by a player. (Consider that some prizes can be too small, large, or heavy).
- 3. The machine must be chacked frequently to insure that the prizes are not packed, restricted, or inaccesible to a player. If a prize cannot be retreived by a skillful player in a reasonable amount of attempts, DO NOT place it within the game.
- 4. Checking with the jurisdiction authorities where you are operating, as to any required business license, game license, or regulations. (You may also do this through your business legal advisor).
- 5. Inspect your game daily to ascertain all mechanisms are properly functioning. All decals and signs are posted, and your prizes are well stocked. This will increase your play.
  - Your fair consideration with the customers is your best long-term repeat business.

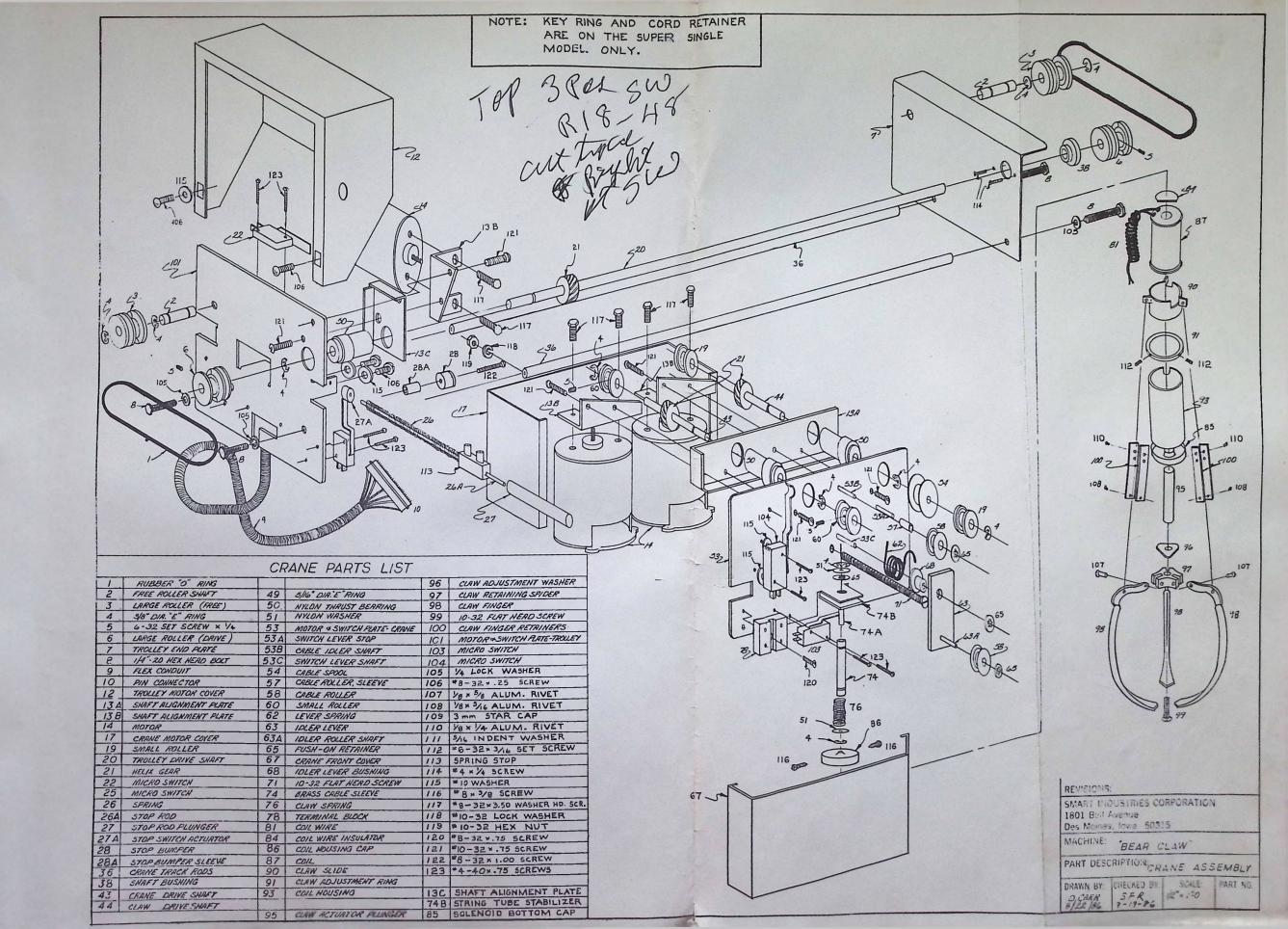
This list provides you with the necessary information for ordering replacement parts for you game. Please note that, for simplicity, common hardware has been deleted from most of these parts lists. This includes screws, nuts, washers, bolts, etc.

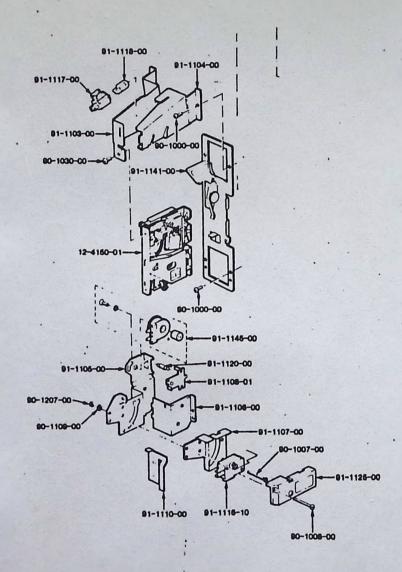
When ordering parts give the part number, part name, and serial number of your game. This will help to avoid confusion and mistakes in your order. We hope the results will be less downtime and more profit from you game.

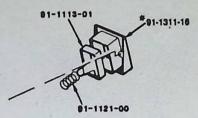
#### PARTS LIST (CRANE)

- 1. Rubber "O" Ring
- 2. Free Roller Shaft
- 3. Large Roller (Free)
- 4. 3/8 DlA. "E" Ring
- 5. 6-32 Set Screw
- 6. Large Roller (Drive)
- 7. Trolley End Plate
- 8. 1/4-20 Hex Head Bolt
- 9. Flex Conduit
- 10. Pin Connector
- 12. Trolley Motor Cover
- 13A. Shaft Alignment Plate
- 13C. Shaft Alignment Plate
- 14. Motor
- 17. Crane Motor Cover
- 19. Small Roller
- 20. Trolley Drive Shaft
- 21. Helix Gear
- 22. Micro Switch
- 25. Micro Switch
- 26. Spring
- 26A. Stop Rod
- 27. Stop Rod Plunger
- 27A. Stop Switch Actuator
- 28. Stop Bumper
- 28A. Stop Bumper Sleeve
- 36. Crane Track Rod
- 38. Shaft Bushing
- 43. Crane Drive Shaft
- 44. Claw Drive Shaft
- 48. Crane Top Cover
- 49. 5/16 DlA. "E" Ring
- 50. Nylon Thrust Bearing
- 51. Nylon Washer

- 53. Motor & Switch Plate "Crare"
- 53A. Switch Lever Stop
- 53B. Cable Idler Shaft
- 53C. Switch Lever Shaft
- 54. Cable Spool
- 57. Cable Roller Sleeve
- 58. Cable Roller
- 60. Small Roller
- 62. Lever Spring
- 63. Idler Lever
- 63A. Idler Roller Shaft
- 65. Push On Retainer
- 67. Crane Front Cover
- 68. Idler Lever Bushing
- 71. 10-32 Flat Head Screw
- 74. Brass Cable Sleeve
- 76. Claw Spring
- 78. Terminal Block
- 81. Coil Spring
- 84. Coil Wire Insulator
- 86. Coil Housing Cap
- 87. Coil
- 90. Claw Slide
- 91. Claw Adjustment Ring
- 93A. Coil Housing
  - 95. Claw Actuator Plunger
- 96. Claw Adjustment Washer
- 97. Claw Retaining Spider
- 98. Claw Finger
- 99. 10-32 Flat Head Screw
- 100. Claw Finger Retainer
- 101. Motor & Switch Plate "Trolley"
- 103. Micro Switch
- 104. Micro Switch







#### MINI DOOR W/CASH BOX PARTS LIST

WIND DOOM	WICKSH BUX PARIS
12-4150-01	Gold Mech.
20-4184-00	Mini Cash Box & Ud
20-4185-00	Mini Cash Box
20-4186-00	Mini Cash Box Lid
90-1000-00	Kayhook Bezel Screw
90-1002-00	Hinge Screw
90-1003-00	Clamp Screw
BO-1007-00	Flat Head Microswitch
	Mounting Screw
90-1006-00	Panhead Microswitch
	Mounting Screw
80-1030-00	Mounting Screw for
	Gold Mach

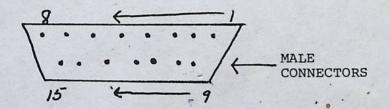
90-1032-00	Bezel/Hinge Screw PZ
90-1207-00	Nut for Microswitch Mounting Screw
91-0499-18	Black Nylon Mini Door Frame
91-0504-18	Door
91-0506-00	Clamp .
91-0636-00	Fiat Lock & Cem Assembly
91-1103-00	Coin Inlet Lamp Side
91-1104-00	Coin Inlet Cover Side
91-1105-00	Reject Cup Side Plate
91-1106-00	Reject Cup Base Plate

	91-1107-00 N
50	91-1108-01 L
	01-1109-00 F
н	91-1110-00
	#91-1111-18 E
	<b>#91-1211-00</b> 2
	# 91-1311-16 E
	#81-1112
	81-1109-00 F 91-1110-00 F 91-11110-00 F 91-1111-18 F 91-1211-00 F 91-1311-18 F 91-1212-00 F 91-1312-18

91-1113-01	Entry/Reject Button U.S. 25*
91-1116-10	Microswitch (Red Eng Arm)
91-1117-00	Lampholder
91-1118-00	6V Wedge Base Lam
91-1120-00	Lockout Spring
81-1121-00	Button Spring
91-1125-00	Clear Plastic Cover for Microswitch
91-1141-00	Base Plate w/Pivot &
91-1145-00	12 VDC Lockout Co

# COIN HARNESS

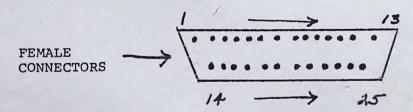
PIN #	WIRE COLOR olors may vary)	FUNCTION
1	GREEN	COIN MICRO SWITCH (COMMON)
2	white/orange Orange or	JOYSTICK LEFT (NORMALLY OPEN)
3	WHITE/YELLOW	JOYSTICK RIGHT (NORMALLY OPEN)
4	RED	JOYSTICK BACK (NORMALLY OPEN)
5	WHITE .	JOYSTICK FORWARD (NORMALLY OPEN)
6	ORANGE (20 ga.)	POWER SUPPLY 12V
7	YELLOW (20 ga.)	POWER SUPPLY 12V
. 8		
9	WHITE/GREEN	COIN MICRO SWITCH (NORMALLY OPEN)
10	WHITE/BLUE	CLAW DOWN (JOYSTICK) (NORMALLY OPEN)
11 BLUE	OR WHITE, RED	COIN METER (BLACK WIRE
12	PINK,	COIN METER (RED WIRE)
13	WHITE/PURPLE	COMMON JUMPER OF ALL 5 MICRO SWITCHES ON JOYSTICK.
14	DARK BLUE (20 ga.)	POWER SUPPLY 48V
15	LIME GREEN (20 ga.)	POWER SUPPLY 48V

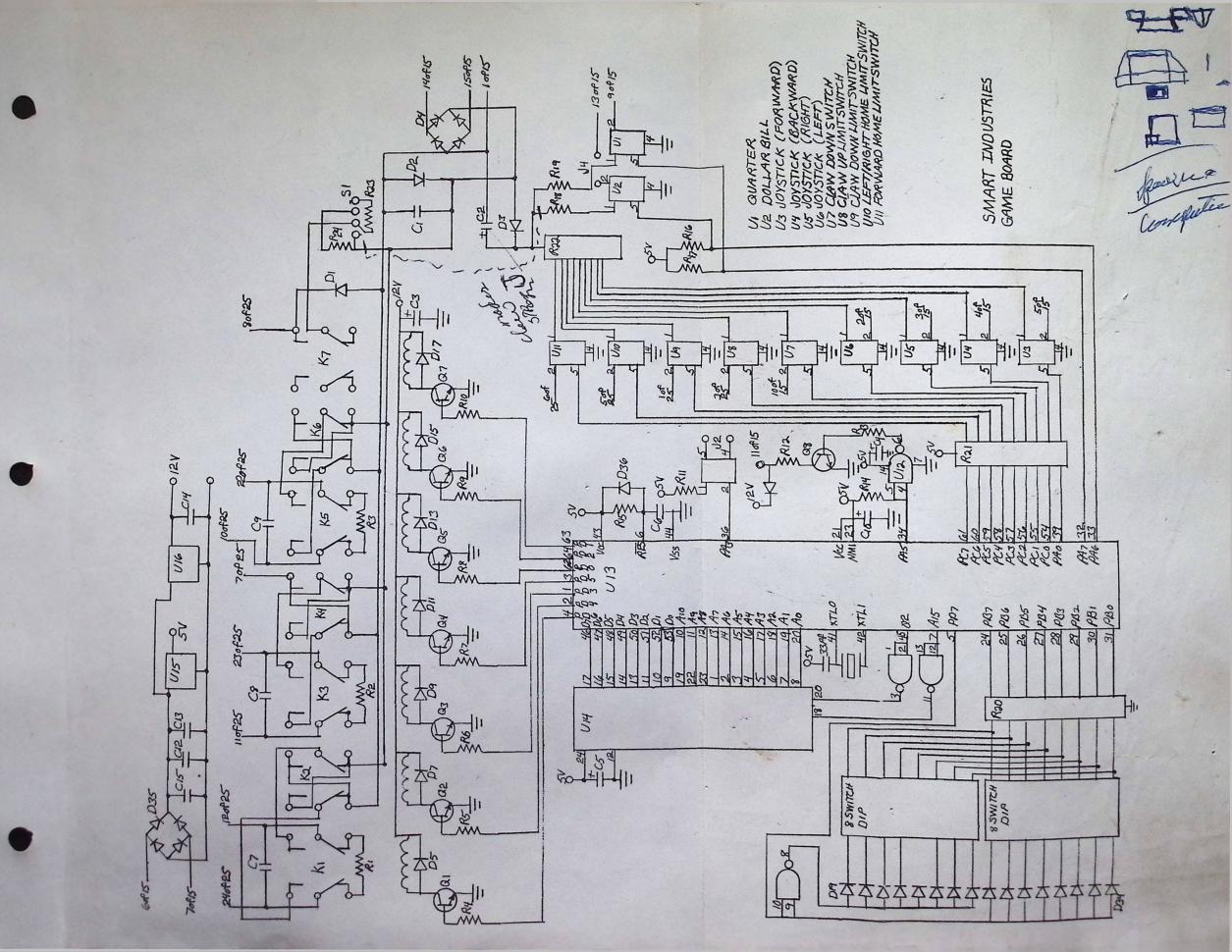


496.2

CRANE HARNESS

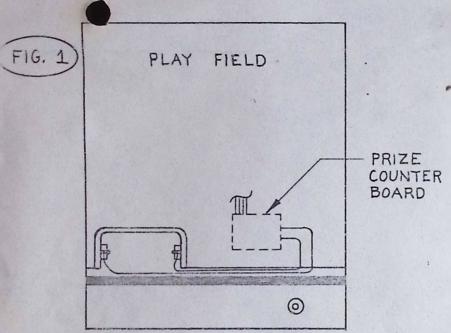
	CRAME HAS	0.150
PIN #	WIRE COLOR colors may vary)	FUNCTION
1	RED	CLOSE COMMAND SWITCH (NORMALLY OPEN)
3	WHITE	UP/DOWN LIMIT SWITCH (NORMALLY OPE:
5	YELLOW	L/R LIMIT SWITCH (NORMALLY OPE)
6	PURPLE	F/B MOTOR LIMIT SWITCH(NORMALLY OPER
7	BLACK	F/B MOTOR LIMIT SWITCH (COMMOI
8	GREEN	CLAW SOLENOID
10	ORANGE	UP/DOWN MOTOR (RED WIRE)
11	BLUE	L/R MOTOR (RED WIRE)
12	GRAY :	F/B MOTOR (BLACK WIRE)
14	WHITE/YELLOW	CLOSE COMMANDSWITCH (COMMO
16	WHITE/GREEN	UP/DOWN LIMIT SWITCH (COMMO
 18	BROWN	L/R MOTOR LIMIT SWITCH 7 (COMMO
20	WHITE/BLUE	CLAW SOLENOID &
22	WHITE/PURPLE	UP/DOWN MOTOR (BLACK WIRE)
23	PINK	L/R MOTOR (BLACK WIRE)
24	WHITE/RED	F/B MOTOR (RED WIRE)



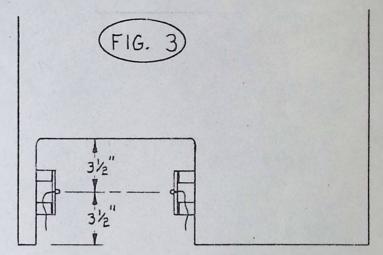


#### INSTRUCTION FOR INSTALLATION OF PRIZE COUNTER UNIT

- 1. Mount circuit board on bottom side of playfield, inside coin mech door. (See Figure 1)
- Mount prize counter beside coin counter on rear wall, inside coin mech door.
- 3. Route censor wires between front of playfield and window frame. (See Figure 1) Note:
- 4. With power disconnected connect power to circuit board. (See Figure 2)
- 5. Align censors in prize chute (See Figure 3)



NOTE: AN UPWARD FORCE FROM THE BOTTOM OF THE PLAY FIELD MAY NEED TO BE APPLIED IN ORDER TO FIT SENSORS THROUGH.



NOTE: IT WILL BE NECESSARY TO TURN POWER ON TO MAKE SURE SENSORS ARE ALIGNED. THE RED ON THE CIRCUIT BOARD WILL BE ON WHEN SENSORS ARE PROPERLY

ALIGNED.

CAUTION: DAMAGE MAY RESULT IF POWER IS LEFT ON WITH SENSORS UNALIGNED.

